

## **REMARKS**

### **Detailed Action**

The Examiner states the copy of Amendment B, Paper No. 16, dated 28 July 2003 contains several black ink lines and marks making some of the claims and remarks difficult to read. The Examiner has requested that Applicants send a "clean copy" of this amendment with the response to the present Office Action.

To comply with Examiner's request, Applicants are herein submitting with this Amendment a clear photocopy of the previously filed Amendment B, Paper No. 16, dated 28 July 2003.

### **Claim Objections**

The Examiner objected to the term "IR" in claim 5. Claim 5 has been deleted.

### **Claim Rejections – 35 USC 112, first paragraph**

#### *New Matter*

Claim 19 was rejected for allegedly failing to comply with the written description requirement. Claim 19 has been deleted.

#### *Enablement*

Claim 3-6, 11-15 and 19 have been rejected for allegedly failing to comply with the enablement requirement.

The Applicants submit that amended claim 3 is enabled because it recites additional method steps for the comparison of a compound to insulin receptor. The Examiner did not raise an enablement objection to the wording of claim 7, which depended from claim 3, and much of the wording of claim 7 has been incorporated into amended claim 3.

In view of the incorporation of claim 7 wording into claim 3, claim 9 (formerly dependent on claim 3) has been rewritten in independent form.

The Examiner objected to claim 11 for lack of guidance as to the meaning of the term "cam". The term "cam" has been deleted from claim 11. It is submitted that "cam-loop segment" is well defined by the reference to Table 2, which lists amino acids under a "cam-loop segment" heading. The applicants submit that the "cam-loop segment" is also well-described in the application under the heading "Interaction of modulators of IR cam" beginning on page 25, line 25.

The Examiner further objected to the claims due to an alleged lack of method steps that would enable one to determine a modulator from a mere comparison. The Examiner further notes that the specification provides working examples of identifying modulators using computer simulation, however, claim 3 does not recite these steps. The Applicants submit that the amended claim 3 recites sufficient methods steps for enablement purposes, for the reasons provided above.

#### **Claim rejections – 35 USC 112, second paragraph**

Claims 3-5 and 19 were rejected for failing to point out and distinctly claim the subject matter that the Applicants regard as the invention.

The allegedly objectionable phrase "derivative thereof" is not present in amended claim 3 and claims 4, 5 and 19 have been deleted.

The term "the computer", which allegedly lacked antecedent basis, has been deleted from claim 8. Amended claim 8 refers to a "processor", which has an antecedent basis in the claim. Claim 7 has been deleted, and the corresponding wording in claim 3 has been modified to recite a "processor" which already had an antecedent basis in claim 3.

The phrase "approximate amino acid distances listed in Table I" in claim 8 has been amended to refer to "approximate amino acid intersidechain distances listed in Table I." Claim 7 has been deleted, and the corresponding wording in claim 3 has been modified accordingly.

The phrase "display the quaternary structure thereof" in claims 8 and 9 has been amended to recite the quaternary structure "of the ligand binding site." Claim 7 has been deleted, and the corresponding wording in claim 3 has been modified accordingly.

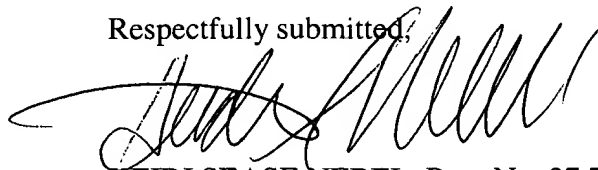
Claims 11-14 were rejected for reciting a "cam" and a "cam-loop segment." The term "cam" has been deleted and it is submitted that the term "cam loop segment" is described in the application, as explained above.

### **Conclusion**

Applicants submit that in light of the foregoing amendments and remarks the claims are in a condition for allowance. Reconsideration is respectfully requested.

Enclosed is our check for \$55.00 (small entity) to cover the cost of a one-month Extension of time. No other fees or extensions of time are believed to be due in connection with this amendment; however, consider this a request for any extension inadvertently omitted, and charge any additional fees to Deposit Account No. 26-0084.

Respectfully submitted,



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